

FOLDING OPTICAL WAVEGUIDE NEAR-TO-EYE DISPLAY DEVICE

ABSTRACT

Disclosed herein is a folding optical waveguide near-to-eye display device, including: an image source (111), a prism (121) with a cylindrical surface, a curved lens (131), a prism (141), and a prism group (151) connected by two or more prisms glued together in sequence, where a prism surface of the prism (121) is partially or completely a cylindrical surface, the cylindrical surface faces the image source (111), the prism (121) is connected to the prism (141) through a prism surface other than the cylindrical surface to form a first gluing surface, the prism (121) is connected with an opposite surface of a curved surface of the curved lens (131) through another prism surface other than the cylindrical surface to form a second gluing surface, and the prism (141) and the prisms of the prism group (151) are glued and connected in sequence.

Fig. 1